



U.S. Department  
of Transportation  
**Research and  
Special Programs  
Administration**

DOT-E 10180  
(NINTH REVISION)

400 Seventh St., S.W.  
Washington, D.C. 20590

EXPIRATION DATE: June 30, 2003

JUL 18 2001

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Fireboy-Xintex, Incorporated  
(Formerly: Consolidated Marine Products, Inc.)  
Grand Rapids, MI
2. PURPOSE AND LIMITATIONS:
  - a. This exemption authorizes the manufacture, marking, sale and use of DOT specification cylinders, except they are equipped with pressure relief device systems other than as prescribed by the Hazardous Materials Regulations (HMR), to be used for the transportation in commerce of certain Division 2.2 materials. This exemption provides no relief from the HMR other than as specifically stated herein.
  - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce. with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.34(d) and 178.35(e) in that pressure relief device systems other than as prescribed by the HMR are authorized; §§ 173.304(a)(2) and 175.3 in that the prescribed packagings are not authorized.
5. BASIS: This exemption is based on the application of FireBoy-Xintex, Incorporated dated July 12, 2001 submitted in accordance with § 107.109.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous materials description -- proper shipping name	Hazard Class/ Division	Identi- fication Number	Packing Group
Bromotrifluoromethane or Refrigerant gas, R 13B1	2.2	UN1009	N/A

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Hazardous materials description -- proper shipping name	Hazard Class/ Division	Identi- fication Number	Packing Group
1-Chloro-1,2,2,2- tetrafluoroethane or Refrigerant gas R 124	2.2	UN1021	N/A
Heptafluoropropane or Refrigerant gas R 227	2.2	UN3296	N/A

7. PACKAGING(S) and SAFETY CONTROL MEASURES:

a. PACKAGINGS - Packagings prescribed are DOT Specification 39, 4B360 or 4BW350 cylinders equipped with a pressure relief system in accordance with Consolidated Marine Products, Inc.'s drawings and specifications on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA). The pressure relief system is actuated by a fusible metal strut or a glass bulb sensor. The pressure relief system must function:

- (1) at a temperature no greater than 212°F.; and
- (2) at a pressure no greater than 80 percent of the cylinder's minimum burst pressure.

b. TESTING - Each DOT Specification 4B and 4BW cylinder must be retested and reinspected as specified in § 173.34(e).

c. OPERATIONAL CONTROLS -

- (1) The maximum permitted filling density is 125 percent (75 pounds/cubic foot).
- (2) The maximum charge pressure may not exceed that specified in § 173.301(f).
- (3) Cylinders must be shipped in strong outside packaging in accordance with § 173.301(k), as applicable.
- (4) Bromotrifluoromethane must be transported in DOT Specification 39 cylinders. DOT 4B360 or DOT 4BW350 cylinders are not authorized for Bromotrifluoromethane.

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8. SPECIAL PROVISIONS:

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this exemption for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this exemption.

b. A person who is not a holder of this exemption, but receives a package covered by this exemption, may reoffer it for transportation provided no modifications or changes are made to the package and it is offered for transportation in conformance with this exemption and the HMR.

c. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

d. Each packaging manufactured under the authority of this exemption must be either (1) marked with the name of the manufacturer and location (city and state) of the facility at which it is manufactured or (2) marked with a registration symbol designated by the Office of Hazardous Materials Exemptions and Approvals for a specific manufacturing facility.

e. A current copy of this exemption must be maintained at each facility where the package is manufactured under this exemption. It must be made available to a DOT representative upon request.

f. MARKING - Each cylinder and the outside packaging must be marked "DOT-E 10180".

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, cargo aircraft only, and passenger-carrying aircraft.

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport the cylinders authorized by this exemption. The shipper must furnish a current copy of this exemption to the air carrier before or at the time the shipment is tendered.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

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- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, Parts 171-180.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when this exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must also inform the AAHMS, in writing, as soon as practicable of any incidents involving the package and shipments made under this exemption.

Issued in Washington, D.C.



*for* Robert A. McGuire  
Associate Administrator  
for Hazardous Materials Safety

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(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.  
Attention: DHM-31.

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